| <br>ex of C |  |
|-------------|--|
|             |  |

Rejected

Allowed

| Application/Control No. | Applicant(s)/Patent under Reexamination HANGODY ET AL. |  |  |  |  |  |
|-------------------------|--|--|--|--|--|--|
| 10/087,999              |  |  |  |  |  |  |
| Examiner                | Art Unit   |  |  |  |  |  |
| David O. Reip           | 3731   |  |  |  |  |  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

|         |  | _            | Ь  |              |  |  |              | ,        | _             |                 |
|---------|--|--------------|--|--------------|--|--|--------------|----------|---------------|-----------------|
| Cla     | aim  | Γ            |  |              | -  | Date   | <del></del>  |          |               |                 |
| Final   | Original   | -18000       | 7 78   | -            |  |  |              |          |               |                 |
|         | 1  | =            |  |              |  |  | _            |          | Ħ             | Н               |
|         | 1<br>2<br>3<br>4<br>5                              | ΙŤ           |  |              | -  |  | _            |          |               | М               |
|         | 3  | H            | 1  |              |  | П  | $\neg$       |          |               | П               |
|         | 4  | H            | W  |              |  |  |              |          |               | П               |
|         | 5  | 1            | W  | П            |  |  |              |          |               |                 |
|         | 6  | IT           | N  |              |  |  |              |          |               |                 |
|         | 7  | Π            | W  |              |  | •  |              |          |               |                 |
|         | 8  | Π            | W  |              |  |  |              |          |               |                 |
|         | 9  |              | W  |              |  |  |              |          |               |                 |
|         | 10   | Ш            | W  |              |  |  |              |          |               | Ш               |
|         | 11   |              | ~  |              | _  | Щ  | L            | Щ.       |               | Ш               |
|         | 12   | $\coprod$    | 1  | _            | L  | Щ  | ļ            |          |               | Ы               |
|         | 13   | Ш            | ~  | <u> </u>     | _  | Щ  | Щ            | Ш        | <u> </u>      | Ш               |
|         | 10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18 | 1            | 10733  | <u> </u>     | _  |  | <u> </u>     | Щ        |               | Щ               |
|         | 15   | Щ.           | 4  | <u> </u>     | H  | _  | _            |          |               | $\vdash \vdash$ |
|         | 16   | Н-           | ν.   |              |  | $\vdash$   | -            |          |               |                 |
|         | 1/   | -            | ~  | <u> </u>     | <del>  .</del>                                   | -  | <u> </u>     |          |               | $\vdash$        |
|         | 18   | H            | ~  | <u> </u>     | -  | $\vdash$   | -            |          | <u> </u>      | $\vdash$        |
|         | 19   | Н            | ~  | ├            | -  | $\vdash$   | _            | Н        | ┝             | $\vdash$        |
|         | 20<br>21   | Н            | <del></del>                                      | ⊢            | -  | -  |              | Н        |               | $\vdash$        |
|         | 22   | ╁            | ਨਿ   | ⊢            | -  | -  |              | Н        |               | Н               |
|         | 23   | 1            | W  | ├            | -  |  |              |          | _             | Н               |
|         | 24   | Н            |  | $\vdash$     | $\vdash$   |  | -            | _        | -             | Н               |
|         | 25   | 1            | W.   | ┢            | ┢  | Н  |              | -        | $\vdash$      | Н               |
|         | 22<br>23<br>24<br>25<br>26                         | Н            | 5  | H            | ┢  | $\vdash$   |              |          |               | Н               |
|         | 27   | 1            | W  | ┢            | ┢  |  |              |          |               |                 |
|         | 27<br>28   | 11           | W  |              |  | _  |              |          |               |                 |
|         | 29   | IT           | W  |              |  |  |              |          |               |                 |
|         | 30   | 11           | N  |              |  |  |              |          |               |                 |
|         | 31   | T            | ~  |              |  |  |              |          |               |                 |
|         | 32   | ÷            | ~  |              |  |  |              | $\Box$   |               |                 |
|         | 33   |              |  |              |  |  |              |          |               | Ш               |
|         | 34   |              | 匚  | L            | L  | L  | Ш            | oxdot    | ota           | Ш               |
|         | 35   | _            | $oxed{oxed}$                                     | L            | <u> </u>   | L_   | Ш            | Ш        | 乚             | Ш               |
|         | 36<br>37   | $\vdash$     |  | <u> </u>     | <b> </b> _                                       | <u> </u>   | Щ            | L        | ļ             | Ш               |
|         | 37   | <u></u>      | ļ  |              | ļ  | ├_   | <u> </u>     |          | -             | $\vdash \vdash$ |
|         | 38   | -            | ├  |              | <del> </del>                                     | -  | -            |          | -             | $\vdash$        |
|         | 39   | -            | $\vdash$   | ├            | -  | -  | -            | $\vdash$ | ├             | ├               |
|         | 40   | ├-           | ├  | ┝            | $\vdash$   | $\vdash$   | -            | ⊢        | -             | $\vdash$        |
|         |  | -            | ├-   | <del> </del> | $\vdash$   | $\vdash$   | -            | $\vdash$ | $\vdash$      | $\vdash$        |
|         | 42   | ╁            | ├  | -            | $\vdash$   | -  | -            | -        | $\vdash$      | $\vdash$        |
|         | 44   | <del> </del> | $\vdash$   | -            | -  | -  | -            | $\vdash$ | $\vdash$      | Н               |
|         | 45   | $\vdash$     | <del>                                     </del> | -            | -  | _  | <del> </del> | <b>-</b> |               | $\vdash \vdash$ |
|         | 46   | $\vdash$     | $\vdash$   | $\vdash$     | Η  | <del> </del>                                     | $\vdash$     | Г        | Г             | Н               |
|         | 47   | t            | 1  | $\vdash$     | <del>                                     </del> | <del>                                     </del> | $\vdash$     | $\vdash$ | T             | Н               |
|         | 48   | 1            | <del>                                     </del> | ΙT           | T  | <u> </u>   |              | Г        | Π             | П               |
|         | 49   | $\vdash$     | 1-   | <u> </u>     |  | _  |              | Ι        | Γ             | М               |
| <b></b> |  | +            | <b>†</b>   | 1            | <b>†</b>   | 1  | _            | _        | $\overline{}$ |                 |

| Cla  | im             | Date           |          |  |          |          |              |              |          |          |
|--|----------------|----------------|----------|--|----------|----------|--------------|--------------|----------|----------|
|  |                |                |          |  |          |          |              |              |          |          |
| at   | Original       |                | - 1      |  |          |          |              |              |          |          |
| Final  | iĝi            |                |          |  |          |          |              |              |          |          |
| _  | ō              |                | - 1      |  |          |          |              |              |          |          |
|  |                | $\dashv$       | -        | -  | -        |          |              |              |          | $\vdash$ |
|  | 51             | -              | _        |  |          |          |              | -            | _        | Н        |
|  | 52             |                |          |  | $\Box$   |          |              |              | Щ        |          |
|  | 53             |                |          |  | Ш        |          | _            | _            |          | Ш        |
|  | 54             | Ш              |          |  |          |          | $\Box$       |              |          | Ш        |
|  | 55             |                |          |  |          |          |              |              |          |          |
|  | 56             |                |          | - 1  |          |          |              |              |          |          |
|  | 57             |                |          |  |          |          |              |              |          |          |
|  | 58             |                |          |  |          |          |              |              |          |          |
|  | 59             |                |          |  |          |          |              |              |          |          |
|  | 60             |                |          |  |          |          |              |              |          |          |
| <b></b>  | 61             |                |          |  |          |          |              |              |          |          |
| <b></b>  | 62             |                | _        |  | $\vdash$ | _        |              |              |          |          |
| <b></b>  | 63             | $\vdash$       | -        | $\vdash$   | Н        |          |              |              | Н        | Н        |
| <del>                                     </del> | 64             | Н              | -        | -  | -        | H        | -            |              | $\vdash$ | Н        |
| <u> </u>   |                | $\vdash\vdash$ |          |  | <u> </u> |          | Н            |              | $\vdash$ | Н        |
|  | 65             | $\vdash$       |          |  |          | $\vdash$ | Н            |              | Н        | Н        |
| <b> </b>   | 66             | Ш              |          |  | ļ        | <u> </u> | ┝╌┥          |              | <b> </b> |          |
| <u> </u>   | 67             |                |          |  | _        | _        |              |              |          | Ш        |
| <u> </u>   | 68             | Щ              |          |  |          |          |              |              |          | Щ        |
|  | 69             |                |          |  |          |          |              |              |          |          |
|  | 70             |                |          |  | ·        |          |              |              |          |          |
|  | 71             |                |          |  |          |          |              |              |          |          |
|  | 72             |                |          |  |          |          |              |              |          |          |
|  | 72<br>73<br>74 |                |          |  |          |          |              |              |          |          |
|  | 74             | П              |          |  |          |          |              |              |          |          |
|  | 75             |                |          |  |          |          |              | _            |          |          |
| _  | 76             | Н              |          |  |          | _        | Н            |              | Н        | $\vdash$ |
|  | 77             | -              |          |  | -        |          | _            |              | -        | Н        |
|  | 78             |                |          | <del>, -</del>                                   |          | -        |              |              |          |          |
| <u> </u>   | 79             | -              |          |  | -        | -        | -            | -            | ┝        | ┝        |
| <u> </u>   | 80             | -              |          | Н  | -        | -        | H            | ┝            | ⊢        |          |
| <u> </u>   |                | _              |          | _  | -        | _        | $\vdash$     | <u> </u>     | ┝        | Н.       |
| <u> </u>   | 81             | Н              |          | -  | _        |          |              | _            | -        |          |
|  | 82             |                |          |  |          |          |              |              |          | L.       |
|  | 83             | _              | _        |  |          | ļ        |              |              | ╙        |          |
|  | 84             | Ш              |          | L  | Ш        |          | $oxed{oxed}$ | <u> </u>     |          | Ш        |
| L  | 85             |                |          | _  |          |          |              | L            | _        |          |
|  | 86             | Ш              |          |  |          |          |              |              | _        |          |
|  | 87             |                |          |  |          |          |              |              | Ĺ        |          |
|  | 88             |                |          |  |          |          |              |              |          |          |
|  | 89             |                |          |  |          |          |              |              | Γ        | Γ'''     |
|  | 90             |                |          |  |          |          |              |              | Ι        | <b></b>  |
|  | 91             | П              |          | Г  | _        |          |              | _            |          | П        |
| $\vdash$   | 92             | $\vdash$       | -        | <del>                                     </del> |          | $\vdash$ | T            | $\vdash$     | $\vdash$ |          |
| <del>                                     </del> | 93             |                |          | -  | -        | -        | -            | Ι            | $\vdash$ |          |
| <b> </b>   | 94             | $\vdash$       |          |  |          | $\vdash$ | ├~           | <b></b> -    | -        | -        |
| <b> </b>   | 94             |                |          | -  | -        |          | -            | <del> </del> | ├        |          |
| <u> </u>   | 95             | $\vdash$       | $\vdash$ |  | ⊢        | -        | ├            |              | ├-       |          |
| <b> </b>   | 96             | -              |          | <del> </del>                                     |          | <u> </u> | ├-           | <del> </del> | $\vdash$ | <u> </u> |
| <u> </u>   | 97             | <u> </u>       |          | <b> </b>   | _        | ├        | ⊢            | ⊢            | ┞-       | <b> </b> |
|  | 98             | <u> </u>       | L        | <u> </u>   | _        | L        | Ŀ            | L            | <u> </u> | ļ        |
| 1  | 99             | L              | Ĺ        |  |          |          |              |              | 1        | L_       |

| Claim |                   | Date         |            |          |              |            |              |                |              |                 |
|-------|-------------------|--------------|------------|----------|--------------|------------|--------------|----------------|--------------|-----------------|
| Final | Original          |              |            |          |              |            |              |                |              |                 |
|       | 101               |              |            |          |              |            |              |                |              |                 |
|       | 102               |              |            |          |              |            |              |                |              | _               |
|       | 103<br>104        |              |            |          |              |            |              |                |              |                 |
|       | 104               |              |            |          |              | Ш          |              |                |              | $\Box$          |
|       | 105               |              |            |          |              |            |              |                |              |                 |
|       | 106               |              |            |          |              |            |              |                |              |                 |
|       | 107               |              |            | _ ,      |              |            |              |                |              |                 |
|       | 108               |              |            |          |              |            |              |                |              |                 |
|       | 109               |              |            |          |              |            |              |                |              |                 |
|       | 110               |              |            |          |              |            |              |                |              | Ш               |
|       | 111               | ٠.           |            |          |              |            |              |                |              |                 |
|       | 112               |              |            |          |              |            |              |                |              | Ш               |
|       | 113               |              |            |          |              |            |              |                |              | Ш               |
|       | 114               |              |            |          |              |            |              |                |              |                 |
|       | 115               |              |            |          |              |            |              |                |              |                 |
|       | 116               |              |            |          |              |            |              |                |              |                 |
|       | 117<br>118        |              |            |          |              |            |              |                |              |                 |
|       | 118               |              |            |          |              |            |              |                |              | Ш               |
|       | 119               | L            |            | L        |              |            |              |                |              | Ш               |
|       | 120               |              |            |          |              |            |              |                |              | Ш               |
|       | 121               |              |            |          |              |            |              |                |              |                 |
|       | 122<br>123        |              |            |          |              |            |              |                |              |                 |
|       | 123               |              |            | L        |              | L          | <u> </u>     |                |              | Ш               |
|       | 124<br>125<br>126 |              |            | L        |              | _          | L            | ᆫ              |              | Ш               |
|       | 125               |              |            |          |              |            | L            | _              |              | Ц               |
|       | 126               | L            |            |          |              | _          | _            |                |              | Щ               |
|       | 127<br>128        |              |            | L        |              |            | L            |                | L            | Щ               |
|       | 128               | L_           | _          | L_       |              |            | L_           | Ш              | L            | Щ               |
|       | 129<br>130        |              | <u> </u>   | _        | _            | <u></u>    | L            | <u> </u>       | <u> </u>     | Ш               |
|       | 130               | <u> </u>     | <u> </u>   | <u> </u> | _            | <u> </u>   | L            | L              | ļ            | Ш               |
|       | 131<br>132<br>133 | L_           | <u> </u>   | 匚        | L.           |            |              | _              | <u> </u>     | Ш               |
|       | 132               | L            |            | <u> </u> | L            |            |              | <u></u>        |              | Ш               |
|       | 133               | _            | L_         | L_       | L            | <u></u>    | ļ            | <u> </u>       |              | Ш               |
|       | 134<br>135        |              | <u></u>    | L        | <u> </u>     | _          | <u> </u>     | L              | <u> </u>     | Ш               |
|       | 135               | _            | <u> </u>   | <u> </u> | _            | <u> </u>   | _            | _              | _            | Ш               |
|       | 136               | <u> </u>     | <u> </u>   | <u> </u> | <u> </u>     | $\vdash$   | L            | <u> </u>       | <u> </u>     | $\sqcup$        |
|       | 137               | _            | <u> </u>   | ļ        | ļ            | L-         | _            | <u> </u>       | <u> </u>     | Н               |
|       | 138               | ļ            | ļ          | ļ        | -            | <u> </u>   | $\vdash$     | <u> </u>       | ļ            | ┝┈┤             |
|       | 139               | <b> </b>     | <u> </u>   |          | -            | ├          | -            |                |              | $\vdash$        |
|       | 140               | <u> </u>     | ┡          | -        | ├-           | -          | <del> </del> |                |              | Н               |
|       | 141               | _            | <b> </b> — | ⊢        | ├            | ├-         | ⊢            | ⊢              | -            | $\vdash$        |
|       | 142               | ├-           | _          | H        | ⊢            | -          | ├            | ├              | ├            | $\vdash \vdash$ |
|       | 143               | -            | ├          | ├        | -            | -          | -            | -              | <del> </del> | ├─┤             |
|       | 144<br>145        |              | -          | ├        | -            | -          | -            | 1-             | $\vdash$     | Н               |
|       | 146               | $\vdash$     | -          | -        | -            | $\vdash$   | -            | <del>  -</del> | $\vdash$     | Н               |
|       | 147               | -            | $\vdash$   | $\vdash$ | -            | 1          | -            | _              | $\vdash$     | Н               |
|       | 147               | <del> </del> | ├          | -        | <u> </u>     | $\vdash$   | $\vdash$     | -              | -            | ╌┤              |
|       | 148               | 1            | -          | -        | -            | 1-         | ├-           | ├              |              | Н               |
|       | 150               | <del> </del> | $\vdash$   |          | <del> </del> | 1          | ├            | +-             | -            | H               |
|       | 1 100             | <u> </u>     | Щ.         | ٠        | <b>-</b>     | <u>i .</u> |              | 1              |              |                 |
|       |                   |              |            |          |              |            |              |                |              |                 |